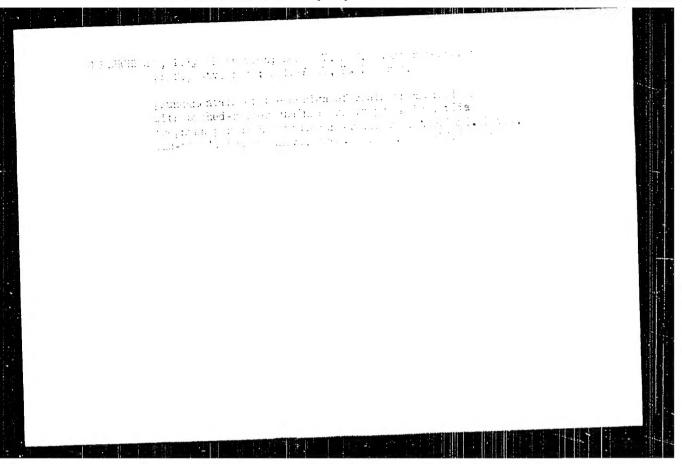
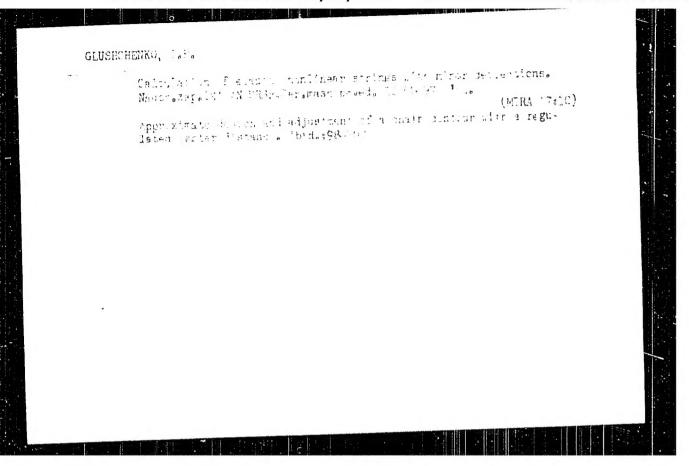
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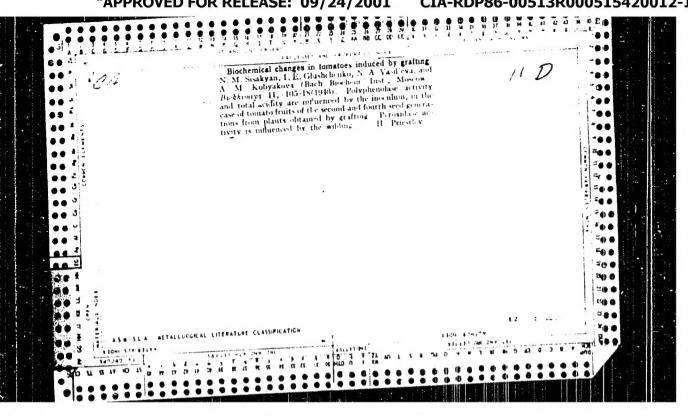




GLUSHCHENKO, 1.P., kand. tekhn. nauk, dotsent, KURENEAGE, E.S., test. tekhr. nauk, dotsent; SOPIN, V.I., kand. tekhn. nauk

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85-88 Ja 165.

(MTR. 18,3)



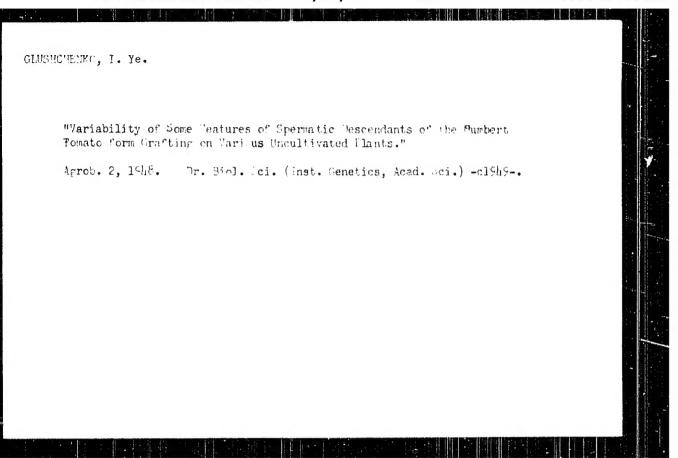
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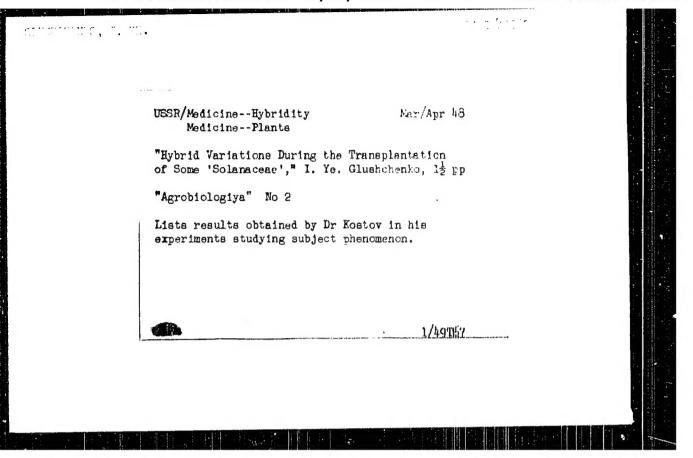
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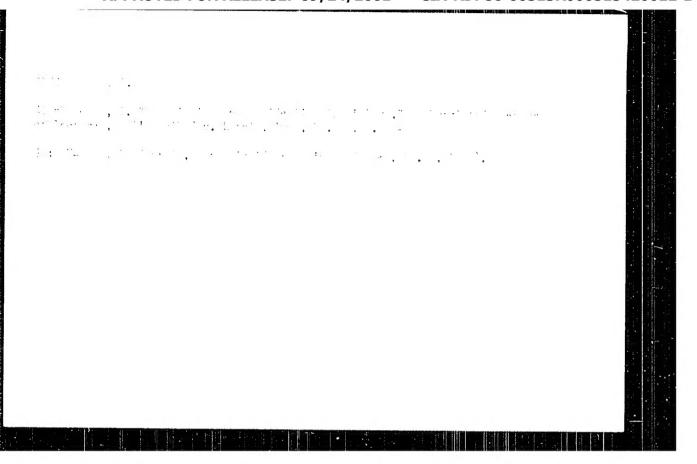
"Vegetative Hybridization as a Nothed for Controlling Shape-Formation Processes GLUSHCHENKO, I. Ye. in Plants," Sub. 23 Jun 47, Inst of Genetics, Acad Sci USSR.

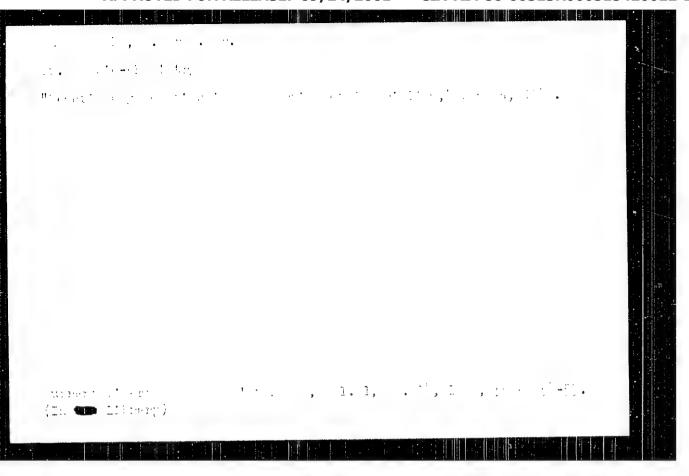
Dissertations presented for degrees in science and engineering in Moscow in 1947.

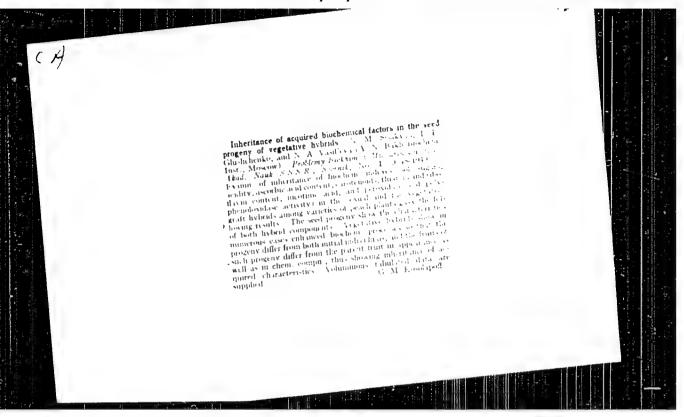
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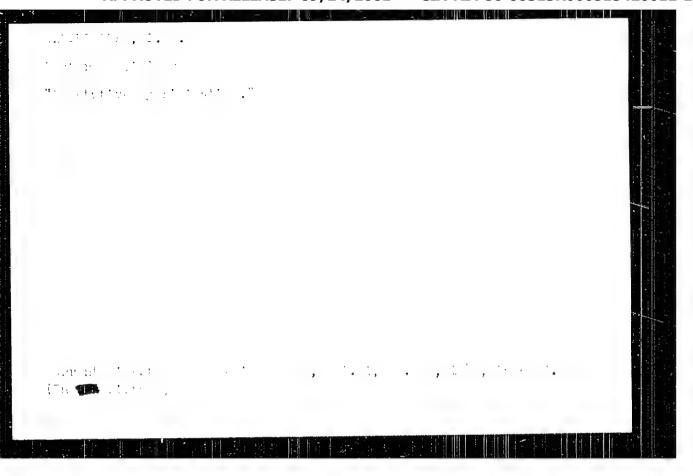


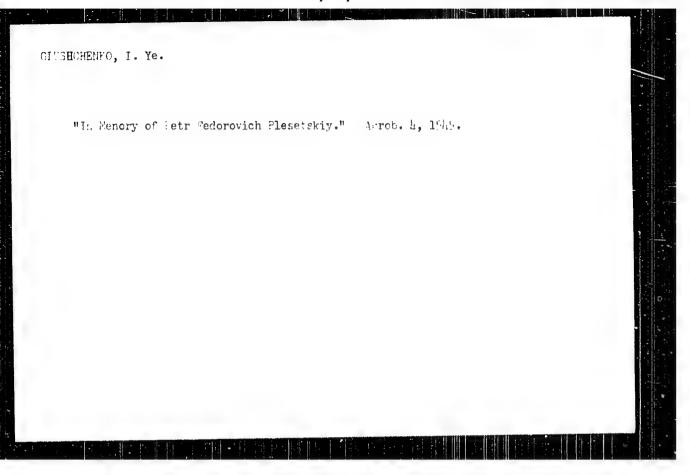








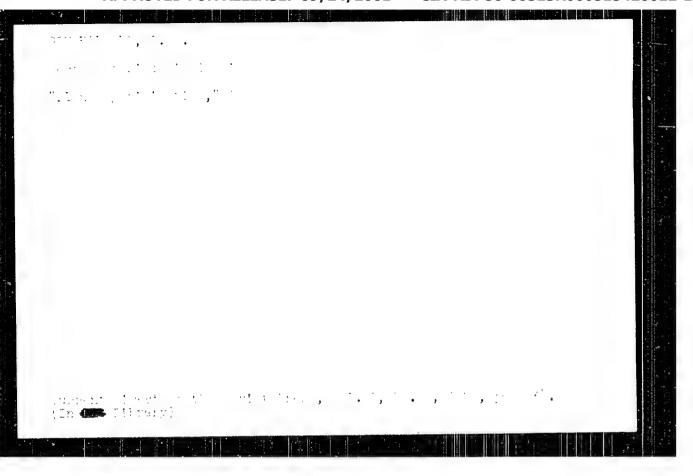


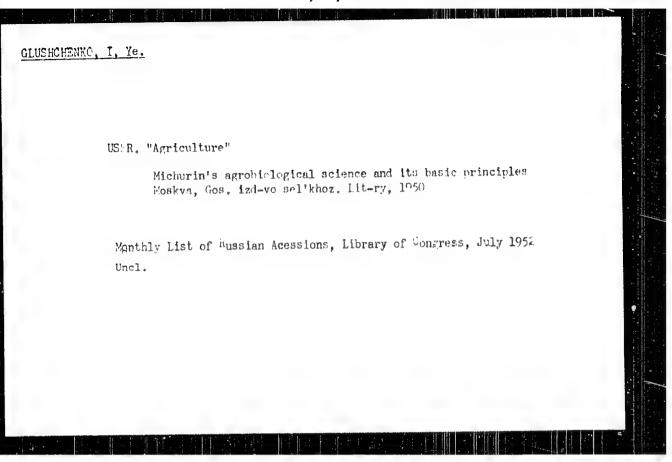


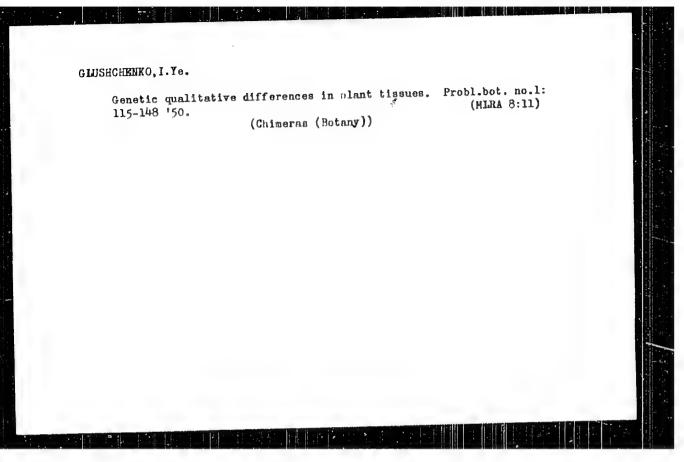
GLOSHCHENKO, I. Ye. (Prof)

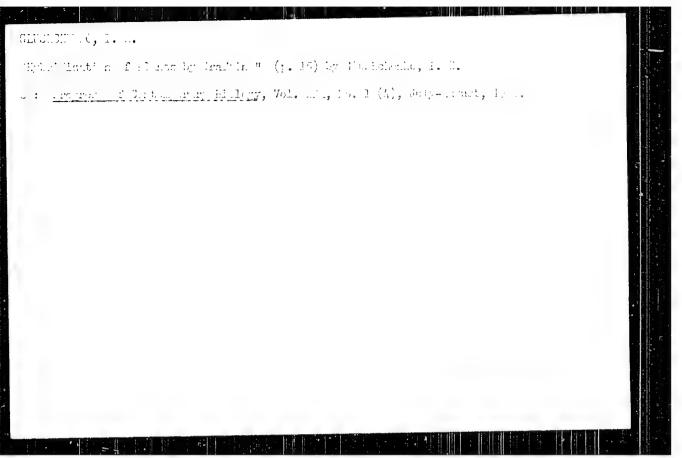
"Reactionary Genetics in the Service of Imporiations"

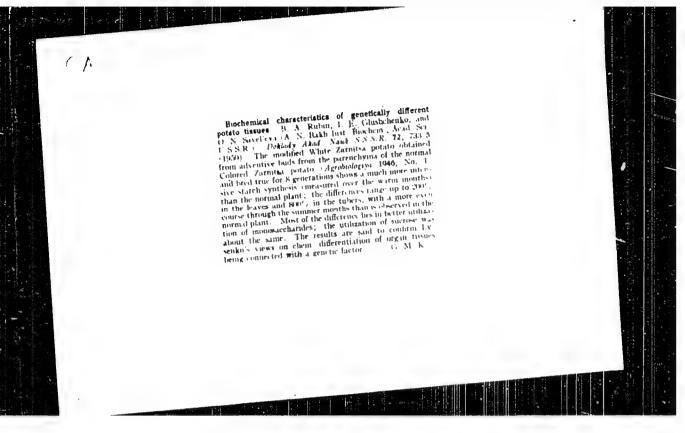
Prayda, 5 April 1949
Sov Press Trans, Vol 4, No 11, 1 June 1949

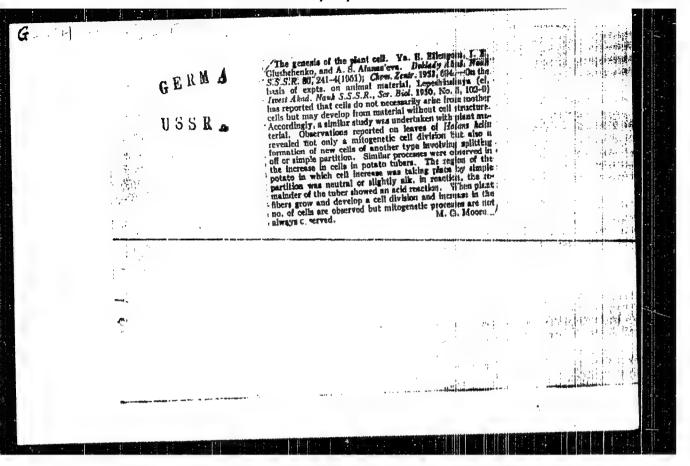












- 1. CIUSHCHENKO, I. Ye. and DROPKOV, A. A.
- 2. USSR (600)
- 4. Plants Metabolism
- 7. Intake and distribution of radioactive elements in grafted plants and their effect on the development of tomato plants, Izv.AN SSSR Ser. biol. No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

GLUSHCHENKO, I.Ye.; YEPIFANOVA, A.P.; NESMEYANOV, A.N., akademik, redaktor.

Trofim Denisovich Lysenko. Moskva, 1953. 128 p. (MLRA 7:2)

1. Akademiya nauk SSSR. (Lysenko, Trofim Denisovich, 1898-)
(Bibliography--Lysenko, Trofim Denisovich, 1898-)
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GLUSHCHENKO, I.Ye.; KLLENGORN, Ya.Ye.; APANAS'YEVA, A.S.; ZHIRONKIN, I.M.

Orgin and development of plant cells. Trudy Inst.gen, no.20:106-126
(NLFA 7:1)

(Plant cells and tissues)

MAYSKIY, I.N., professor, redaktor; LEPESHINSKAYA, O.B., redaktor; SEVERIN, S.Ye., redaktor; INSHEMETSKIY, A.A., redaktor; GLUSHCHEN-KO, I.Ye., professor, redaktor; KHRUS-GERY, G.K., professor, redaktor; STUDITSKIY, A.M., professor, redaktor; VORONTSOVA, M.A., professor, redaktor; VTAZOV, O.Ye., kandidat meditsinskikh nauk, redaktor; OBYSOV, N.A., redaktor

[New data on the problem of the development of cellular and non-cellular forms of living] Novye dannye po probleme razvitia kletochnykh i mekletochnykh form zhivogo veshchestva; trudy. Noskva, Gos. izd-vo med. lit-ry, 1954. 274 p. (HLRA 7:3)

1. Deystvitel'nyy chlen AMN SSSR (for Lepeshinskaya, Severin) 2. Chlen-korrespondent AM SSSR (for Imshenetskiy) (Cells)

USSR Arriquiture - Pi 1 dv Corl 1 1 in The disk, T. I., What metake, I We Essenter, Ko. F., Author Pabenianny, P.D., and Feyning m. N. L. In them of some coldensists and vages of clear end sound organisms Title . Lov. All COSA, Ser. Et 1. 3, 5-15, May Call Co. Peri dieal 1 I alte versy over Decripts to served parameters lested a new Evolution and the Abstract post in the and little for observance of copies characteristics. Proponents of indestre-meterolicity outland element that Darwinsia contra-Alite to the lifethic pollogical their alvercanion directed their angments ogainst the materialistic foundations of Parwin's theory - Practical application of the principles of selection by T. V. Micharir resulted in the development of 40 improved varieties of agricultural animals. T. D. Lycenko's theory of phasal levelopment of plants meated some . - conditions for . The imment of new forms of sturing winter wheat from summer wheat. The reason why agricultural science in the USSR has been larging is his to ins equate coordination of the certical work in all branches of biology and because practical utilization of breeding methods have not been properly carried out. Institution . in This profile is an objit percent of a report, now, in Table 9.1, leaves Submitted conference, appraised by the Burlitate of Generals, Asslemy of Solences the USSR, to norminate research in genetics.

GLUSHCHEIKO, I. E.

WSR/Miscellaneous - Propaganda

Card

: 1/1

Authors

: Glushchenko, I. E., Prof. Dr. of Biological Sc.

Title

: In brotherly Bulgaria

Periodical

: Nauka i Zhizn¹, 6, 39 - 40, June 1954

Abstract

: The author speaks about the agricultural, industrial and political

development of Bulgaria under the influence of the USSR. Illustrations.

Institution :

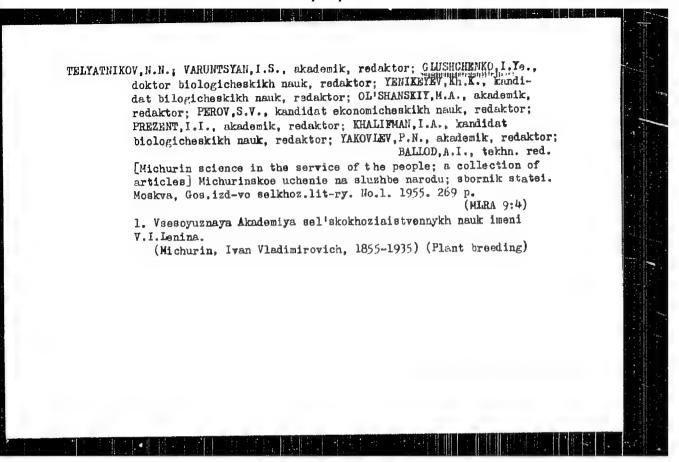
Submitted

TELYATNIECV, N.N.; VARUNTSYAN, I.S., akademik, red.; GLUSHCHENKO, I.Ye., doktor biolog.nauk, red.; YENIKEYEV, Kh.K., kand.biolog.nauk, red.; OL'SHANSKIY, M.A., akademik, red.; PEROV, S.V., kand.ekonom.nauk, red.; PREZENT, I.I., akademik, red.; KHALIFMAN, I.A., kand.biolog. nauk, red.; YAKOVLEV, P.N., akademik, red.; SAVZDARG, V.R., otv. za vypusk; BALLOD, A.I., tekhn.red.

[Michurin's teaching in the people's service; collection of articles] Michurinskoe uchenie na sluzhbe narodu; sbornik statei.

Moskva, Gos.izd-vo sel'khoz.lit-ry. No.3. 1955. 238 p.
(MIRA 13:6)

1. Vse soyuznaya skademiya sel'skokhozyaystvennykh nauk imeni Lenira.
(Plant breeding) (Stock and stockbreeding)



USSR/Biology - Cytology

Fub. 42-5/9

Card 1/1

Ellengorn, Ya. Ye., Glushchenko, I. Ye., Ryabinina, M. N. Author

Non-mitotic methods of reproduction in plant cells. Title

Izv. AN SSSR. Ser. Biol. 2, 59-52, March-April, 1955 Periodical:

Experimental Observations of special and modified forms of amitosis Abstract :

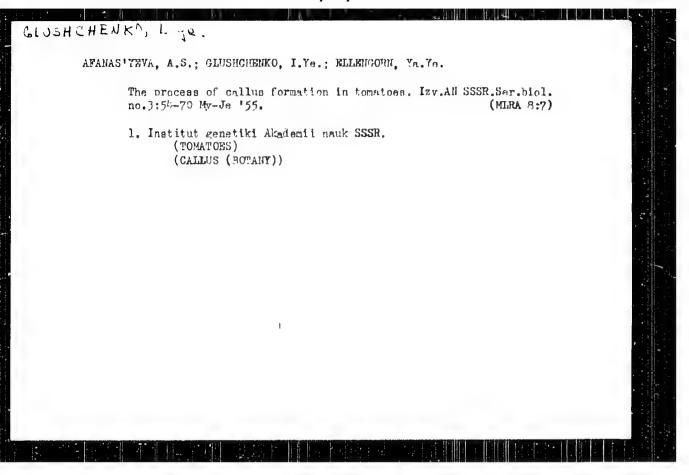
which are referred to by the author as non-mitotic are described. This included observations on the formation of a nucleus within a nucleus in the process of ontogenetic development of cells, the propagation of nuclei in relation to the division of nucleoli, the formation of a nucleno from baseophilic substances of the cell plasma, development of connucleated cell precursors, and the propagation of nuclei in the aerenchyma tissue of the tomato callus. Diagrams; photographs. Sixty one

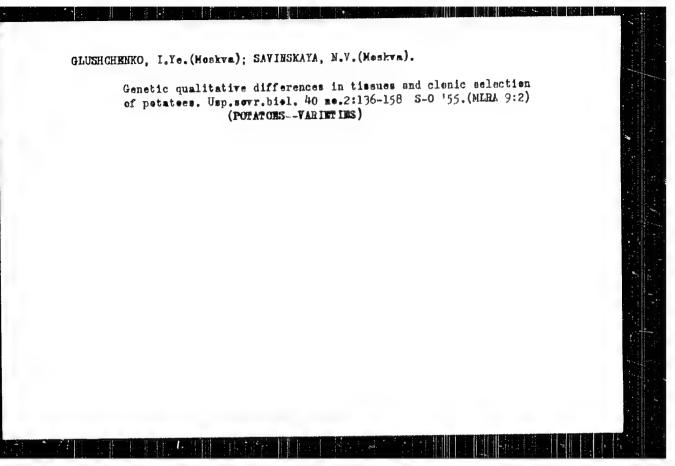
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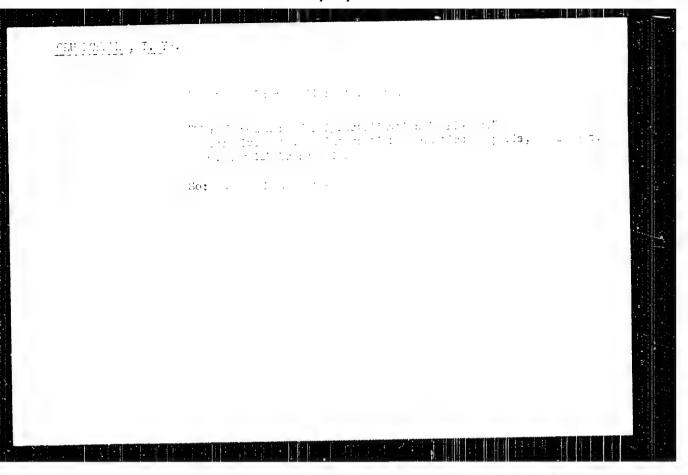
references, forty nine of these from the USSR (forty one after 1940).

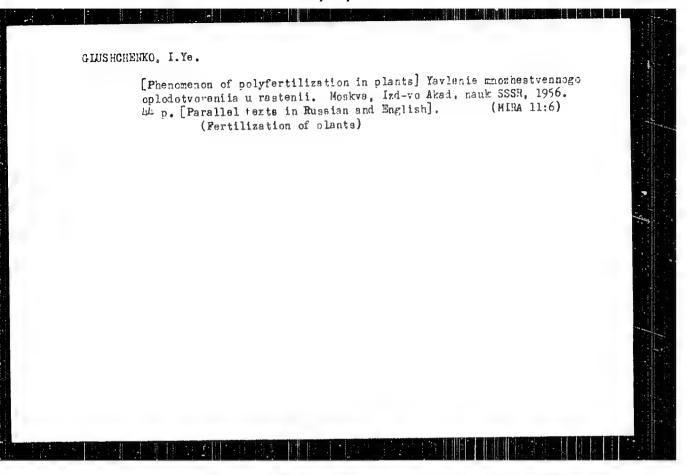
Institute of Genetics, Acad Sci USSR Institution:

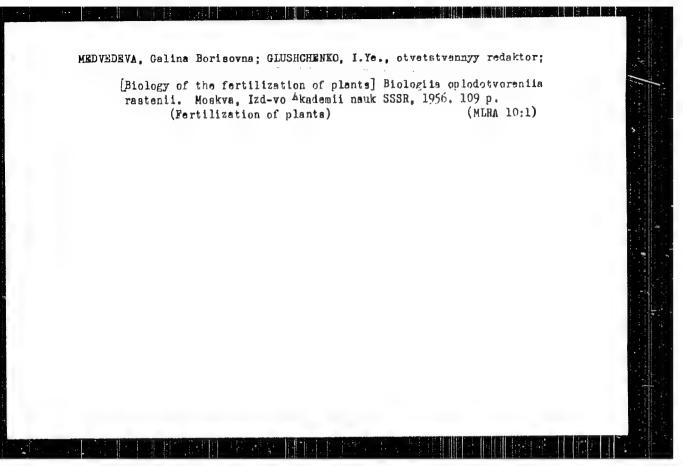
Submitted :











GIUSHCHENKO, J.Ya., professor

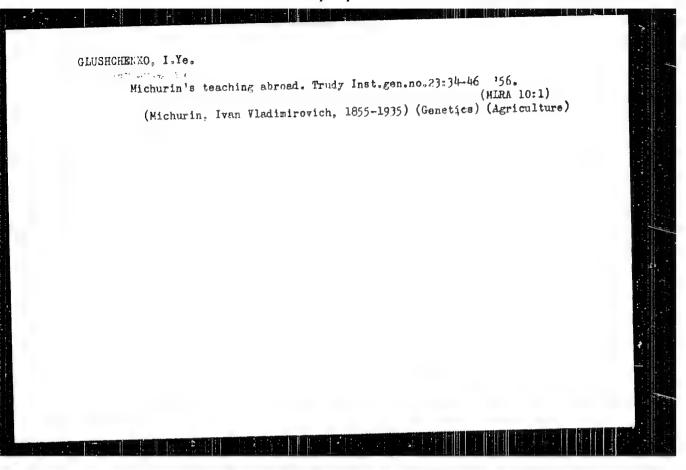
Michurin's theories abroad. Izv. All SSSR. Ser. biol. no.1:18-28

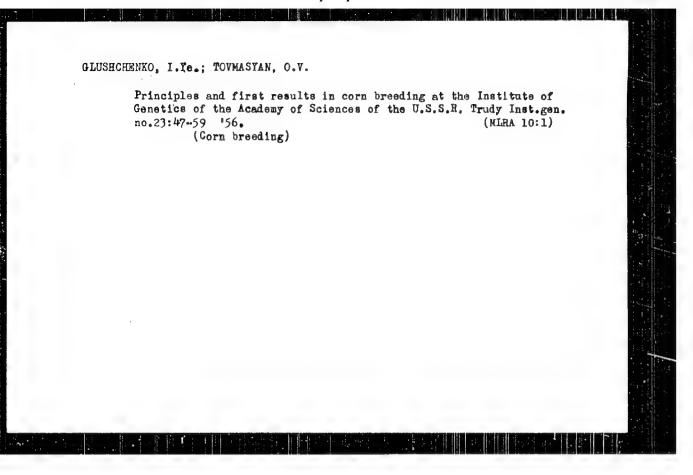
Ja. F '56

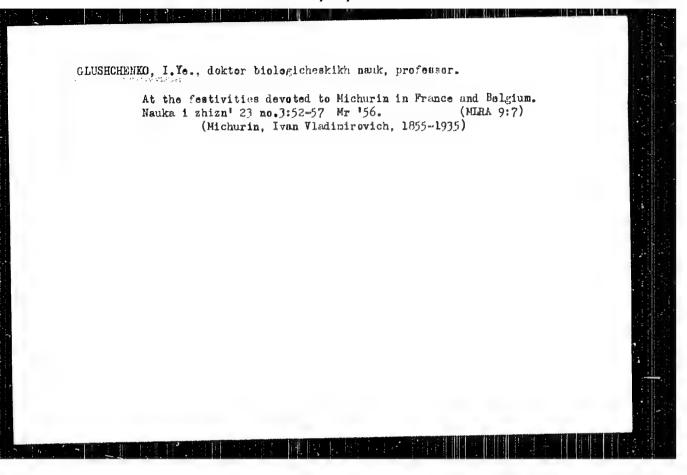
(MICHURIN, IVAN VLADIMIROVICH, 1885-1935) (BIGLOGY)

Fundamental principles and first results in corn breeding at the
Institute of Genetics of the Academy of Sciences of the U.S.S.R.
Izv.AN SSR.Ser.biol. no.3:31-49 My-Je '56. (MLRA 9:8)

1. Institut genetiki Akademii nauk SSSR.
(CORN (MAIZE)--VARIETIES)







GIUSHCHENKO Ivan Yardokimorich, akademik; STAROSTENKOVA, M.M., red.; ATMOSHCHENKO, L.T., takin.red.

[The present status of the problem of vegetative hybridization]
Sovrenennee sostoiante voprosa o vegetativnoi gibridizatsii.

Moskva, Izd-vo "Znania," 1957. 31 p. (Vseasoiuznoe obshchestvo po rasprostraneniu politicheskikh i nauchuykh znanii. Ser.3, no.52)

1. Vseasoyuznaya akademiya sel'skoknozyaystvennykh nauk im.V.I.Lenina (for Glushchenko).

(Hybridization, Vegetable)

GLUSHCHERKO, I.Ye., akademik.

Occurrence of multiple fertilization in plants. Agrobiologiia no.1:318 Ja-F '57. (MIRA 10:4)

1. Vsesoyuznaya Akademiya sel'skokhozyaystvennykh nauk im. Lenina.
2. Institut genetiki Akademii nauk SSSR.

(Fertilization of plants)

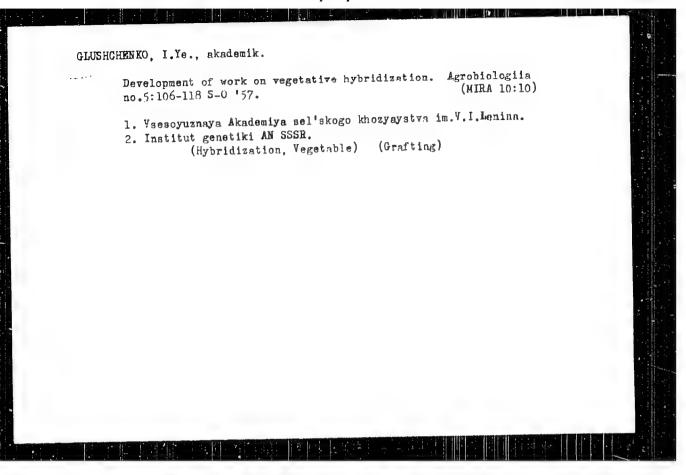
GLUSHCHENKO, I.Ye., akademik.

Paule Bouzy, Michurin's French follower. Agrobiologiia no.2:134-135
Mr-Ap '57.

(MLRA 10:5)

1.Vsesoyuznaya Akademiya sel'skokhozyaystvennykh nauk im. Lenina.

(Bouzy, Paule)



GLUSHCHERKO, I.Ye., red.; NUZHDIN, N.I., red.; PASHINSKAYA, T.N., red.;

PREZENT, I.I., red.; FEYGINSON, N.I., kand.sel'skokhoz.nauk, red.;

OZEROV, V.N., red.; ZUBRILINA, Z.P., tekhn.red.

[Achievements in the field of biological sciences; materials of the anniversary session of the All-Union Academy of Agricultural Sciences dedicated to the contental of I.V. Michaelle, highly Destination

anniversary session of the All-Union Academy of Agricultural Sciences dedicated to the centennial of L.V.Michurin's birth] Dostizheniia biologicheskoi nauki; materialy inbileinoi sessii VASKNIL, posviashchennoi 100-letiiu se dnia rozhdeniia I.V.Michurina. Pod red. I.E. Glushchenko i dr. Moskva, des.izd-ve sel'khoz.lit-ry, 1958. 374 p. (MIRA 12:10)

1. Vsesoyuznaya akademiya seliskokhozyaystvennykh nauk imeni V.I. Lenina. 2. Moskovskiy gosudarstvennyy universitet, kafedra genetiki i selektsii (for Feyginson).

(Biology)

LYSENKO, T.D.; OL'SHAHSKIY, M.A.; SINYAGIN, I.I.; GLUSHCHENKO, I.Ya.;

VARHITSYAN, I.S.; PREZENT, I.I.; SHCERBINOVSKIT, N.S.; EMURKOV,

V.I.; YEVSTIGREYRY, S.M.; BOCHEVER, A.M.; LITTIN, V.M.; YAKKOVA,

A.T.; PODVOYSKIY, I.I.; SAKS, Ya.I.; KHALIFMAN, I.A.; FRYGINSON,

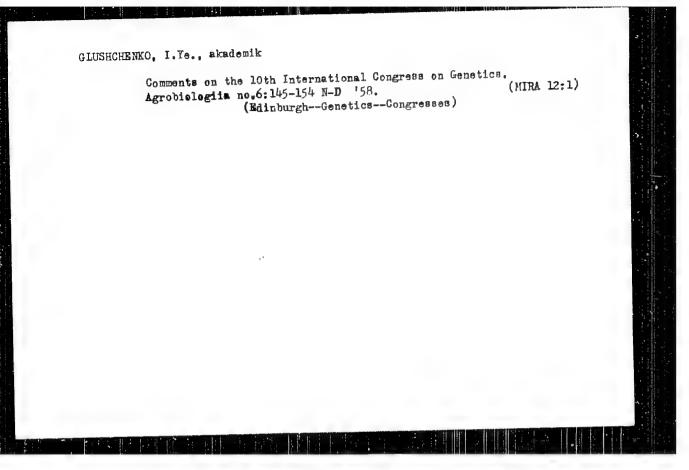
N.I.; SHCHENLOVA, Yu.M.; DLUGACH, G.V.; STERLIN, R.A.; LISOVSKAVA,

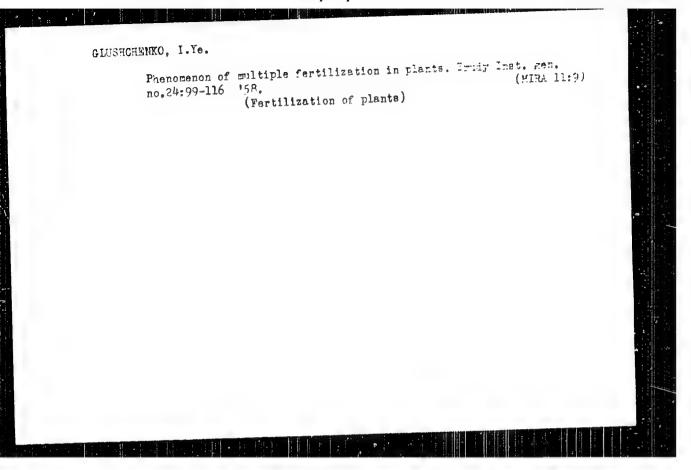
O.V.; GUSINA, T.I.; ROZEMFEL'D, M.I.: TSVETAYEVA, Ya.M.; PARKHO
MENEO, Ya.V.; NEYMAN, N.F.

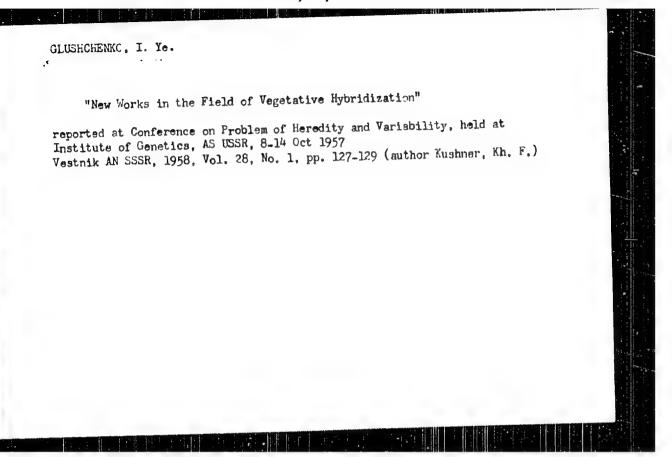
Sofia IAKOVLEVNA Voitinskaia; an obituary. Agrobiologiła no.6:121

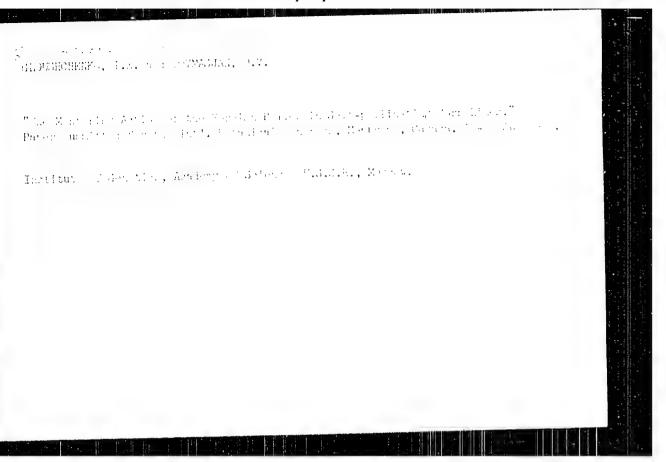
J1-Ag '58.

(Voitinskaia, Sofi'ia Iakovlevna, 1898-1959)









# "APPROVED FOR RELEASE: 09/24/2001

# CIA-RDP86-00513R000515420012-1

GLUSHCHENKO, Iven Yevdokimovich, akademik; SUKHOV, A.D., red.; ATROSHCHENYO, L.Ye., tekhn.red.

[At the Congress of Genetics in Canada] Na kongresse genetikov v Kanade. Moskvs. Izd-vo "Zmanie," 1959. 31 p. (Vessoulume v Kanade. Moskvs. prostraneniiu politicheskikh i neuchnykh zamii. obshchestvo po rasprostraneniiu politicheskikh i neuchnykh zamii. (KIRA 12:5)

Ser. 8. Biologiia i meditsina, no.7)

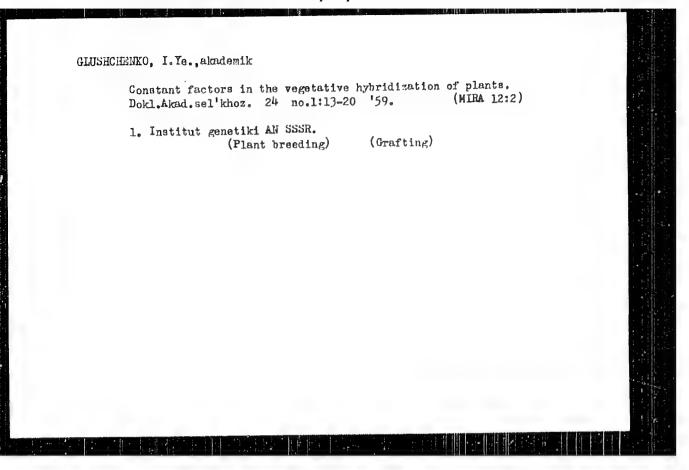
1. Vaesoyuznaya skademiya sel'skokhozyaystvennykh nauk im. V.I. Lenina (for Glushchenko).

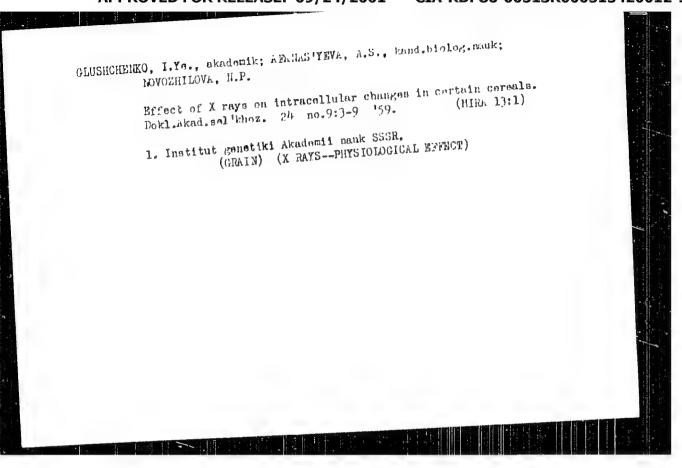
(MONTREAL-GENETICS-CONGRESSES)

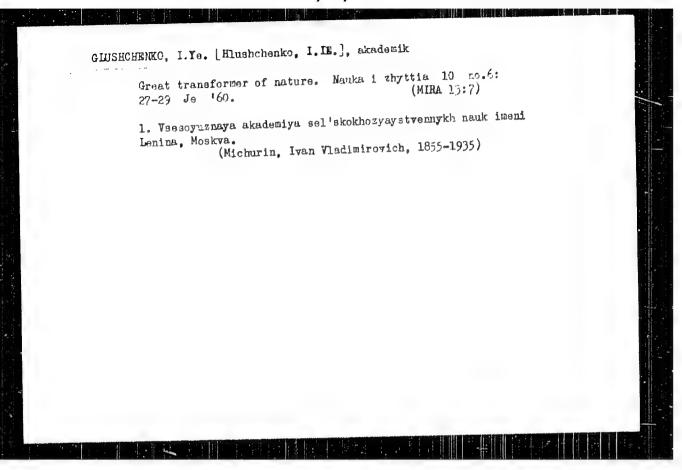
GLAVINICH, R. [Glavinić, Ružica], prof.; YESHICH, Z.[translator];
GLUSHCHENEKO, I.Ye., akadenik, red.; FOMINA, N., red.;
KHAR'KOVSKATA, L.M., tekhn.red.

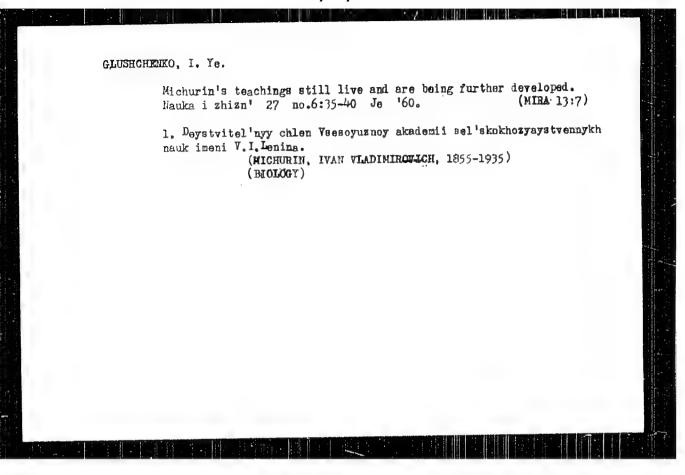
[Heredity alteration in plants through grafting] Izmenenie
nasledstvennosti rastenii putem privirki. Pod red. I.E.
Glushchenko. Moskva, Izd-vo inostr.lit-ry, 1959. 154 p.
(MIRA 12:10)

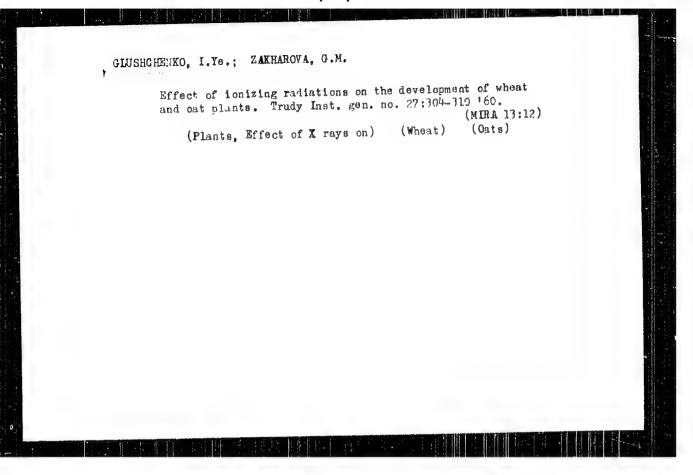
1. Belgradskiy universitet (for Glavinich). 2. Vsesoyumaya
akadeniya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for
Glushchenko).
(Grafting) (Heredity)











GLUSHCHERKO, I.Ye., otv.red.; GUZHEV, Yu.L., red.; KAGAROV, Y.M.,
red.; KUSHGHER, Kh.F., red.; MUZHDIN, N.I., red.; PLATONOV, G.V.,
red.; FEYGINSON, N.I., red.ind-va; SRUZGHL', V.Y., technired.

[Darwinism lives and develops; transactions of the jubiles
conference dedicated to the 100th anniversary of the publication
of C.Darwini's "Origin of species" and the 150th anniversary of the
publication of J.Lamarck's "Philosophy of zoology," Nov.19-21,
1959] Darvinizm zhivet i razvivatata; trudy inblication konferentati,
posviashchennoi 100-letitu opublikovannia "Filosofii zoologii"
Zh.Lemarka, 19-21 noisbria 1959 g. Moskva, 1960. 217 p.
(MIRA 14:2)

1. Akademiya nauk SSSR. Institut genetiki.
(Evolution--Congresses)

IENIKETEV, Khasan Karimovich; GLUSHCHENKO, I.Ya., akademik, otv.red.;

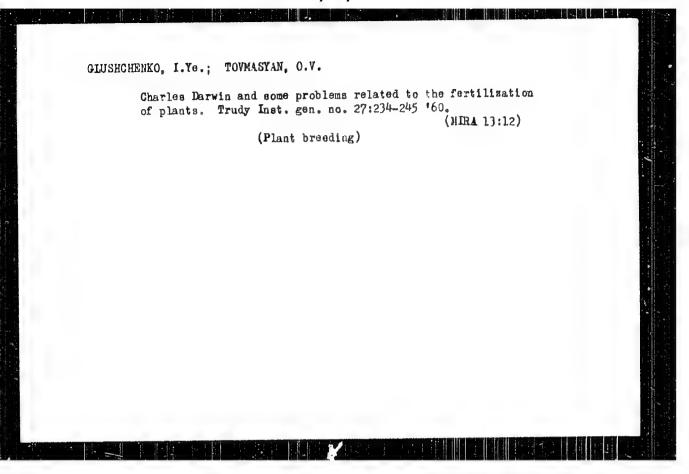
MAKAROVA, O.V., red.izd-va; NOVICHKOVA, M.D., tekhn.red.

[Biological characterictics of plums and the introduction of new varieties] Biologicheskie osobonnosti slivy i vywedenie novykh sortov. Moskva, Izd-vo Akad.nauk SSSR, 1960. 320 p.

(MIRA 14:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Glushchenko).

(Plum--Varieties)



GLUSHCHENKO, Ivan Yevdokimovich; TETYUREVA, I.V., red.; GUNEVICH, M.M., tekthm. Ted.

[lieredity and variability in cultivated plants] Masledtvennest' is immenchivent' kul'turnykh rastenii. Moskva, Gos. 1zd-vo sel'khoz. lit-ry, 1961. 552 p. (MIRA 14.9)

(Plant broading) (Heredity)

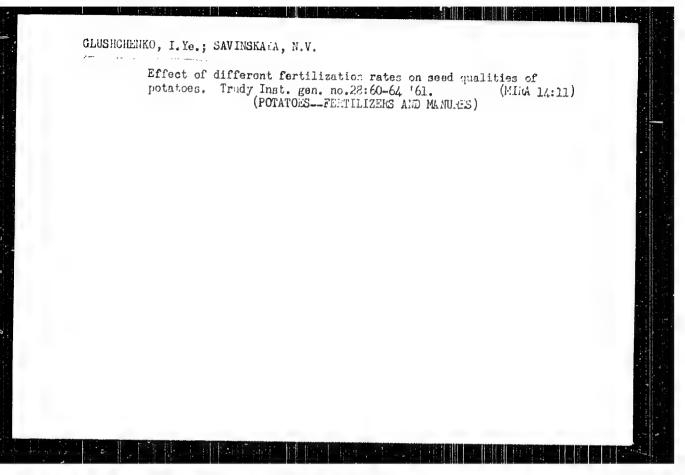
GLUSECHERO, I.Ye., akadomik: Zahharova, G.M., kand.biologicheskikh nauk

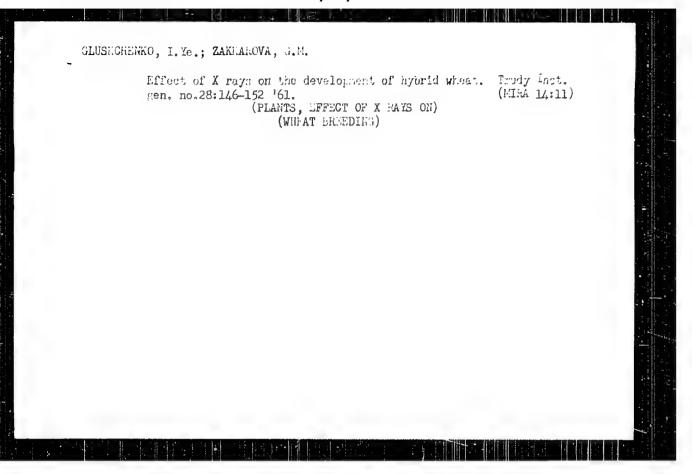
Obtaining Avena fatua from Avena sativa under the influence of ionizing radiation. Agrobiologiia no. 3:402-409 My-Je '61.

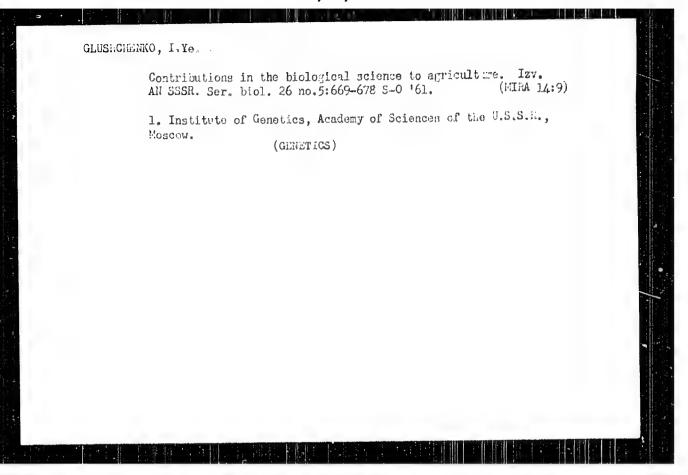
(MIRA 14:5)

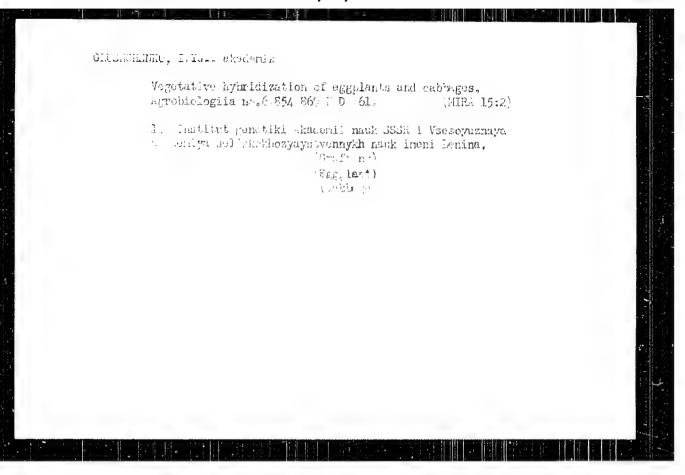
1. Institut genetiki Akademii nauk SSSR. 2. Vsesoyuzraya akademiya sel'skoknozyaystvennykh nauk imeni Lenina (for Glushchenko).

(Oats) (Plants, Effect of radiation on)









GLISHCHERKO, I.Ye.; EHLISTOVA, A.F.

Vegetative hybridization of cabbago. Izv. An SESR. Ser. blcl.
no.3:352-405 My-Je \*62. (MIRA 15:6)

1. Institute of Genetics, Academy of Sciences of the U.S.C.R.,
Moscov. (CABBAGE) (GRAFTING)

S/670/62/000/029/001/006 D291/D307

AUTHORS: Glushchenko, I.Ye. and Zaltharova, G.M.

TITLE: The process of the origin of forms of oats under

the influence of ionizing radiation

SOURCE: Akademiya nauk SSSR, Institut genetiki, Trudy.

no. 29, 1962, 164-177

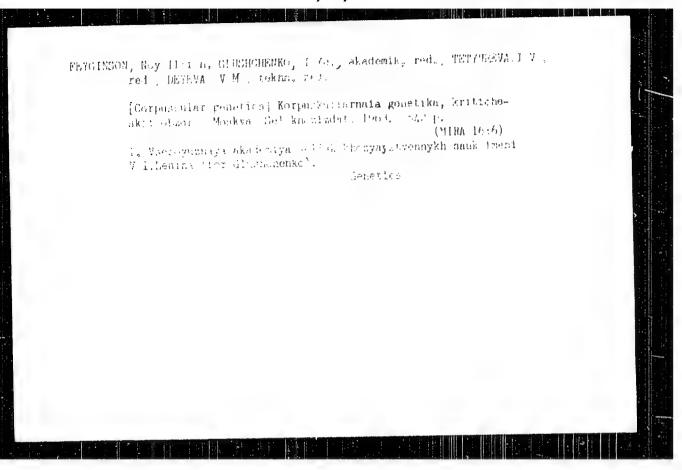
TEXT: Studies by Soviet and foreign workers have shown that fatuoid types may occur in oat populations as a result of unfavorable factors, e.g. low temperatures and chemical treatments and ionizing radiation. In an attempt to explore further the effects of the latter, dry seeds of the varieties Pobeda and Dippe, both of which have white grains and are either awnless or slender-awned, were exposed to X-ray doses of 13,000 and 8,000 r, respectively. In both cases, the X<sub>1</sub> and X<sub>2</sub> generations displayed wide variability in respect of awn characteristics, the following categories being recognized: 1) awnless, 2) awns, 3) coarse awns, 4) coarse, slightly curved awns, and 5) coarse curved awns. The progeny of nonirradicard 1/2

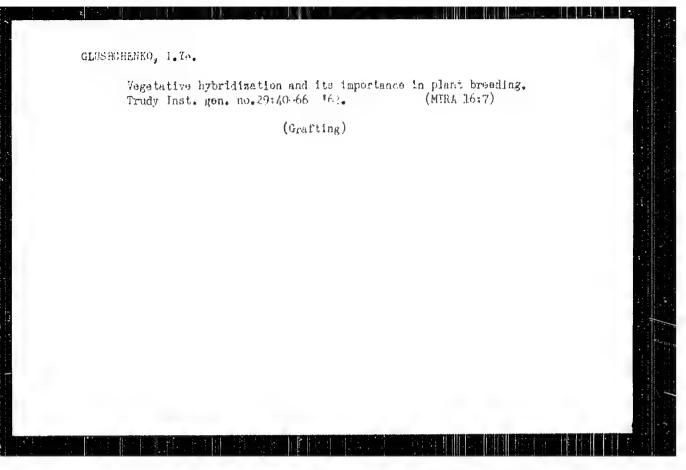
The process of the origin ...

S/670/62/000/029/001/006 D291/D307

ated control material contained only categories 1 and 2. The  $\rm X_5$  and  $\rm X_4$  generations derived from plants having the type 5 awn contained a significant proportion of fatucids, the actual number varying in different families. The  $\rm X_3$  of Pobeda contained 4.5% of fatucids and the  $\rm X_4$  5.5%, the corresponding figures for Dippe being 9.4 and 32.7%. One  $\rm X_3$  Pobeda plant and two  $\rm X_5$  Dippe plants bore a mixture of normal and fatucid spikelets. No fatucids occurred in control material or in the  $\rm X_3$  and  $\rm X_4$  derived from awnless or straight-awned plants. The occurrence of fatucids is attributed to physiological disturbances, which results in an unstable hereditary base in forms with crude, curved awns. There are 8 figures and 6 tables.

Card 2/2



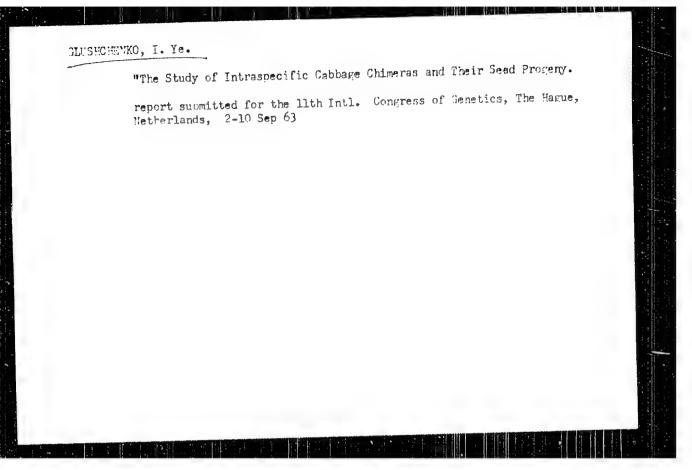


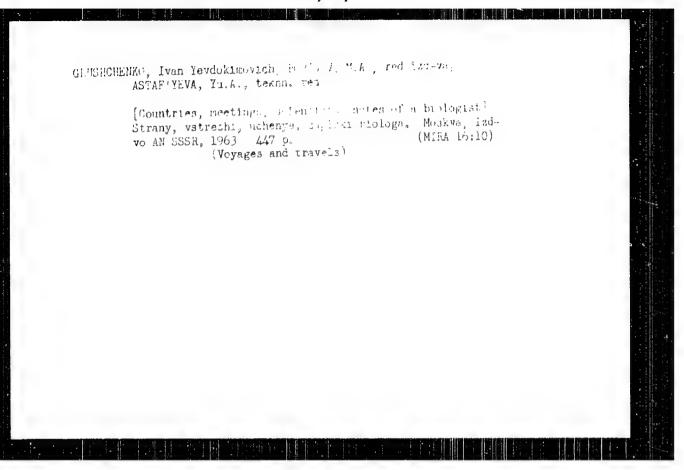
KUSHNER, Kh.F., otv. red.; GLUSHCHENK. I.Va., red.; YENIKEYEV,
Kh.K., red.; KLSIKOV, K.V., red.; NUZHDIN, N.I., red.;
PASHINSKAYA, T.M., red.; PLEVAKUV, I.M., red.; PREZENT,
I.I., red.; SUKHOV, K.S., red.; FEYGISON. N.I., red.izdva; ULIYANUVA, C.G., tekhn. red.

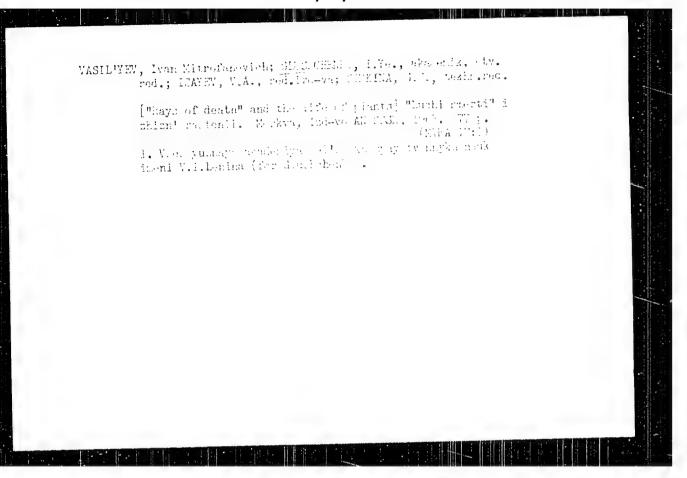
[Genetics in agriculture] Genetika - sel'skomu khoziaistvu.
Moskva, Izd-vo AN SSSR, 1963 794 p. (MIRA 6:9)

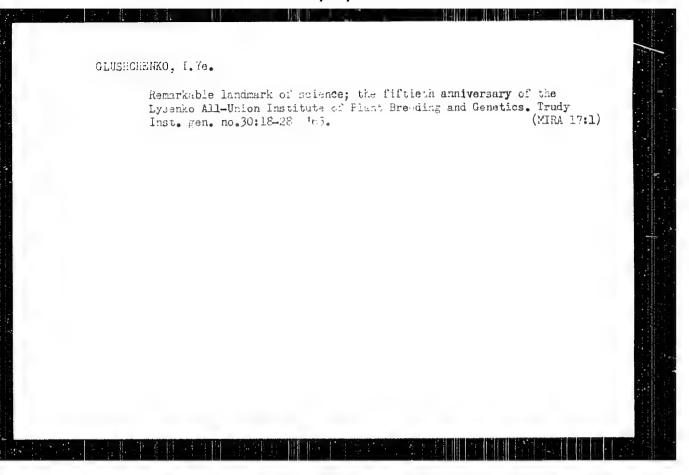
1. Akademiya nauk SSSR. Institut genetiki.

(Plant broeding) (Stock and stockbreeding)





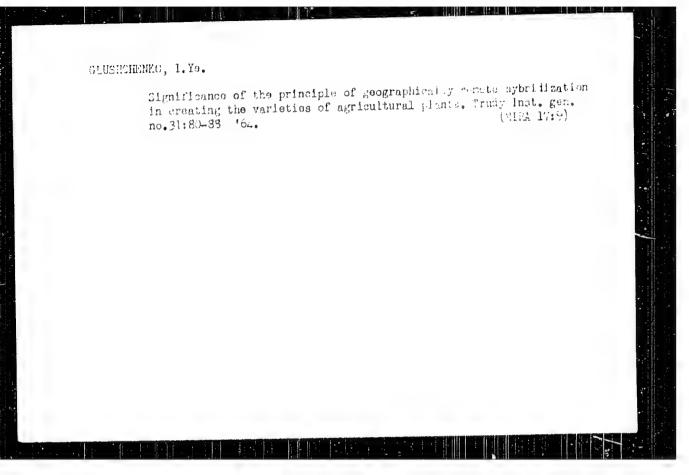




GLUSHCHENKO, I.Ye.; KRUZHKOVA, I.V.; SEMENOV, O.G.; BUKINA, V.A.

Objectives of selection work in the non-Chernozem zone, Izv.
AN SSSR. Ser. biol. no.5:769-778 S-0 '64. (MIRA 17:9)

1. Institute of Genetics of the U.S.S.R. Academy of Sciences, Moscow.



SAKHAROV, G.S., kundidat tekhnicheskikh merk; GLUSHCHERZO, E.I.

Smokeless lubricant for die stamps in makin; fordings. Avt. i trakt.prom. no.3:38-41 Mr \*56. (MERA 9:7)

1.Moskovskiy Avictsionnyy tekhnologieheskiy institut i NIIT Avtoprom. (Sheet-metal work)

GL43HSHEVE X 5 USSR/Cultivated Plants - General Problems. М. : Ref Zhur - Biol., No 4, 1958, 15462 Abs Jour Author : N.V. Kovalev, K.S. Glushchenko, P.I. Tupitsyn Inst : Shreder Fruit and Berry Institute. Title : Fruit and Berry Crops in the Down Stream Region of the Amu-Dar'ya. 13 (Plodovyye i ovoshchnyye kulitury v nizwiyakh Arm-Ear'i). : V sb.: Materialy po projevedit. silam Uzbekistana. Orig Fub Vyp. 2. Tashkent, AN U.SSR, 1956, 5-89. Abstract : In the down stream regions of the Amu-Dar'ya in Kara-Kalpak ASSR and Khorezmskaya Oblast' the Carden areas may be increased from 3200 hectares to 15-20 thousand hectares. The results of the study made by the Expedition of the Fruit and Berry Institute im. Shreder are Card 1/3

USSR/Cultivatel Plants - General Freblems.

Abs Jour : Ref Thur - Biol., No 4, 1998, 19462

discussed which was tale in this zone in 1951-1953. The Tashauzskaya Oblast' of Turkmenlsten has also been investigated. The cultivation of apples, grapes and aprecots is recommended. At present apples occupy 5-11% of all the orchard area. Recommended varieties are the white rosermry, Simirenko rennet, Orleans rennet, the summer golden parmen, the Grayma golden, Kandil'-Sinap, the Jonathan, Borovinka, the melba, and among the new varieties, the gulyandom, Tallya-alma, the Tashkent rennet, and several local varietties. At the Khorezask Casis the pear crop wes back ~2 thousand years. Seven percent of the area of the new orchards (  $\smile 2$ thousand hectares) is planned for pears. The local varieties of apricots are classified and the best of these are recommended. The local apricot varieties exhibit greater winter hardiness, heat resistance and salt resistance. The local forms of pear, apricot, plum, cherry,

М.

Card 2/3

## "APPROVED FOR RELEASE: 09/24/2001

#### CIA-RDP86-00513R000515420012-1

· Chlaborous . L .... USSR/Cult vated Plants - Fruits. Berries. : Re: Zhur - Biologiya, No. 6, 25 Aug 1957, 69364 Abs Jour : Kovale N.V., Glushchenke, K.S., Tupitsin, D.I. Author Inst : Summer Stoppage of Growth of Fruit Trees. Title : Dokt. AN UzSSR, 1950, No 4, 45-49 Orig Pub : Experiments were conducted in the Shreder cruit-cerry Abst institute (Uzbek SSR) on the effect of agrotechnique in periods of shoot growth. The experiments were conducted on a Bely (white) naliv apple tree for 8 years. The effect of different systems of fertilization and irrigation were studied. It was established that neither the agrotechnique nor the length of daylight, nor air or soil temperatures were the causes of growth stoppage. The basis reason for growth stoppage in irrigation environments of optimal humidity was the abundant growth of leafy surface (at the end of May). In normally irrigated orchards the Card 1/2

Ato John Ref Charles Field, No. 18 . To 186 1

A though the new Nov. of the early Kas.

These is An Order of the state of the Freit Tree as an Indicator of the Freit Tree as an Indicator of the Freit Tree as an Endouron of a tree as an end development of a tree as an end development

USSR/C livated Plant: - Fr its. Pervies.

М

Abs John : Ref Zhor Biol., No .8, 1998, 82478

the axial choot grew to 91-1 " certimeters and had 13-20 ani. leaves. By a lan. the apple thee (Belly haliv) A grafied on the prock developed into a small tree 1.5-1.8 meters in height with 18-27 laceral shoots. In spring, a c thing was trallerred onto the stump of a 1)-year old apple tree Renet Simirenko. A b.d formed from the st mp, a short started to grow after 35 days and by the g of July it reached a height of 97 centimeters. It had 32 lateral state of 10-20 centimeters in length. The total growth increment from one bud according to thic data comprised 1340 centimeters. Such prouth increment was obtained at the ergense of intensified feeding. from the energies root system. Cossition of browth may he pro-the about wither by the advent of could weather (winter) or moist re-deficiency (dro ght). The growth of the shoots of an ad it tree proceeds differently. Experiment with an apple tree of Belgy Maliv is cited.

Card 2/3

USSR/C Livated Plants - Fr its. Berries.

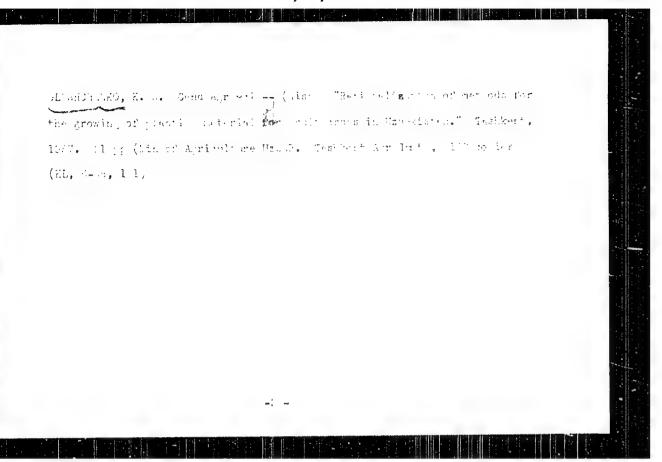
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Abs Jo :: Ref Thur Biol., No 18 1,68, 12471

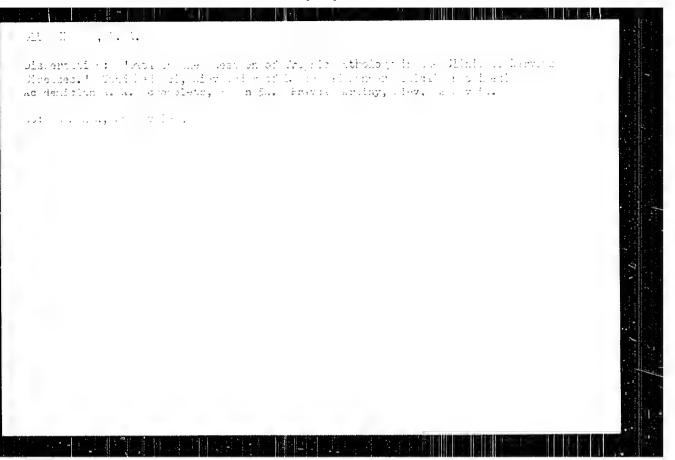
200 kil small of H and 20 kilograms of P were applied on hockers (in two applicabless). In one variant, no lovering of the moist rescantent below 10% was permitted in the 2-meter layer, and I another - below 10%. In all the variants, the growth of the shoots began to die down about the 20th of May. With the enting of the shoot after all of May, with the enting of the shoot grew and on the first beautiff a large branch and the first beautiff a large branch and the first beautiff a large branch and a conditions of feeding and watering applied the growth the open and conditions of feeding and watering. Because of the increasing a condition of notritional substances of other process as a crewth cannot resone. Although in the case of fine and a condition in proceeds in a fruit bearing to the bit in proceeds in a fruit bearing to the process. — Ye.T. Zhukovskaya

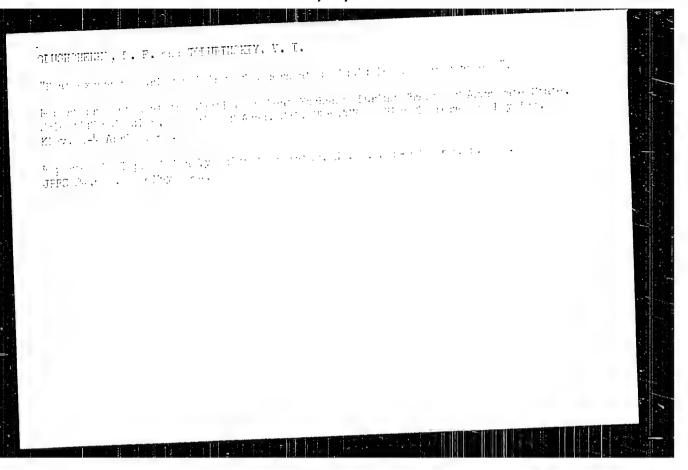
Card 3/3

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s/0294/63/001/002/0260/0266

AUTHORS: Ornatskiy, A. P.; Glushchenko, L. F.

TITLE: Investigating hydraulic resistance in surface boiling of

water in annular ducts

ACCESSION NR: AP4004148

SOURCE: Teplofizika vy\*sokikh temperatur, v. 1, no. 2, 1963, 260-

266

TOPIC TAGS: hydraulic resistance, annular duct flow, annular ducc, heat transfer, surface boiling, heat exchanger, fuel element cooling, nuclear reactor fuel element, reactor cooling, boiling water reactor, nuclear reactor, fuel element

ABSTRACT: Results are reported of investigations made in a pressure range from 5 to 175 atm. flow rate 500 to 3,000 kg/m² sec, temperature differential from 2--3 to 80C, and heat flux from 0.5 x  $10^6$  to  $2.0 \times 10^6$  kcal/m² hr. The experimental setup used is described in Teploenergetika No. 8, 1961. The experimental element was an annular duct made up of two stainless steel (1Khl8N9T) tubes with inside diameter 10 mm and gap widths 1.0, 1.5, and 2.0 mm. The length

Card 1/2

ACCESSION NR: AP4004148

of the measuring section was 150 mm. The measurement procedures are described. A special series of experiments was devoted to the clarification of the contradictory published data on hydraulic resistance. Empirical formulas are derived from the experimental data to calculate the hydraulic resistance. The results of the empirical formulas agree well with results obtained for pipes by N. V. Tarasova and V. M. Orlov (Teploenergetika No. 6, 1962). Orig. art. has: 6 figures and 3 formulas.

ASSOCIATION: Kievskiy politekhnicheskiy institut (Kiev Polytechnic Institute)

SUBMITTED: 06May63

DATE ACQ: 26Dec63

ENCL: 00

SUB CODE: PR, AS

NO REF SOV: 004

OTHER: 002

Card 2/2

EWT(1)/EPF(c)/EPF(n)-2/EPR/T/EPA(bb)-2/ENA(1) Pr-li/Ps 8.19048-65 AFMDC/AEDC(a)/ASD(f)-2/AFETR WW 5/02/1/64/001/006/0910/0914 ACCESSION NR: APSOOLISS AUTHORS: Ornatskiy, A. P.; Glushchenko, L. F.; Chernobay, V. A. TITLE: Effect of pressure on hydraulic resistance during sumface holling SOURCE: Teplofizika vysokikh temperatur, v. 2, no. 6, 1964, 910-914 TOPIC TAGS: hydraulic resistance, boiling, turbulence, conventive heat transfer ABST. ACT: A special set of experiments was performed in small diameter tubes and circular channels to clarify the conflicting data published in the literature on the effect of pressure on the magnitude of hydraulic resistance during surface boiling. The tubes were 2 mm in diameter and 46 mm long. The mass velocity was  $10^4 \text{ kg} \cdot \text{m}^{-2} \cdot \text{sec}^{-1}$ ,  $\triangle t \text{ (underheat)} = 500 \text{ to 1000 and } p = 9.8 \text{ x} \cdot 10^5 \text{ to 49.1 x 10}^5$  $n/m^{-2}$ . (In a circular channel, p =4.9 x 105 to 171.7×105  $n/m^2$ .) The results showed that the hydraulic resistance of the tubes during surface boiling of water was independent of the pressure in the range 10 x  $10^5$  to 150 x  $10^5$  m<sup>2</sup>. Over the ranges tested, the results indicated that the change in the liquid and vapor physical constants shows no effect on the hydraulic resistance during surface boiling. Thus, the hydraulic resistance under such conditions cannot be determined Card 1/2

L 19048-65

ACCESSION NR: AP5001155

by the viscous properties of the liquid, and it is quite independent of "vapor roughness." Further tests were conducted in 2-mm tubes heated by electric currents and cooled by distilled water to obtain a developed surface heiling process as well as a convective heat transfer process without surface boiling. These results showed that the fundamental reason for the rise in hydraulic resistance during surface boiling is a loss caused by the displacement of a liquid mass from the wall layer into the core of the flow. The magnitude of this rise is found to depend on the ratio of the displaced fluid mass to that of the total mass flow at a given cross section per unit time. Orig. art. has: 5 figures and 1 formula.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiev Polytechnic Institute)

SUBMITTED: 18May64

ERGL: 00

SUB CODE: ME

NO REF SOV: 006

OTHER: OOL

Cará 2/2

s/0000/6 /000/000/0005/0009 PMS/(2)/FMS/(0)/FMY/0) AT5004212 ACCESSION NR: Tolubinskiv. V. I. (Corresponding member AN Ukrsur); Gushamana AUTHOR: Heat exchange during boiling of underheated liquid in pr annular channel TITLE: AN UkraSSR. Institut tekhnichaskov teplofiziki, replofizika i teplotekhnika (Thermophysics and heat engineering). Kiev, Naukova dimka, 1964, 5-9 BH TOPIC TAGS: heat exchange, boiling, heat transfer coefficient, Prantil number, Nusselt number ABSTRACT: In view of the discrepancies in the published theoretical values of the heat transfer coefficient for surface boiling, the authors report the results of experiments carried out at the Problem Laboratory of the Klyevskiy politekhor experiments carried out at the reoblem bandratory of the Klyevskry politeking nicheskiy institut (Kiev Polytechnic Institute). A steel (Kil8KC) number channel was made up of two tubes. The diemeter of the inside tube was constant at 10 mm, while that of the outer tube was varied to produce gars of 10 1.5, and 2.0 mm. The working length of the element was 150 mm, broken up into ? measure. ment sections 50 mm each. Each tube was heated with direct current from a separate generator. Distilled water was the coolant. The parameter ranges were: Card 1/2

40020-65 AT5004212 ACCESSION NR:

heat flux q -- 0.58 to 2.33 MW/m<sup>2</sup>; weight velocity -- 4.9 to 29.42 MV/m<sup>2</sup>sec; pressure P -- 5.066, 7.599, 10.133, 13.18, 15.199, and 17.72 MN/m<sup>2</sup> underheat below saturation temperature -- 0 to  $70^{\circ}$ . The temperatures of the inside and outside tubes were measured with moving and fixed thermocountes, respectively, accurate to 1°. The log-log plot of the heat transfer coefficient is heat flow was straight within ± 10%, on the basis of which an empirical formula a boil = 0.533q0.7p0.15 is deduced for the heat transfer coefficient. It is concluded from the results that for developed surface boiling the heat transfer coefficient can be regarded as independent of the underheating, the weight velocity, and the geometrical dimensions of the channel. In annular channels and at appreciable velocities of the heated liquid, the heat transfer coefficients are somewhat lower than for boiling in large volumes. This corresponds to a criterial formula Nu = 75K0.7pr-0.2. Orig. art. has: 2 figures and 7 formulas.

ASSOCIATION: Kiyevskiy ordena Lerina politekinicheskiy inslitut Klev Order of Lenin' Polytechnic Institute)

SURMITTED: 10Aug64

ENCL:

CODE: TD. ME

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OTHER:

Card 2/2 20

#### "APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

36

EWT(1)/EPF(n)-2/ETC(m)-6WW/GG L 21987-66

ACCESSION NR: AP5025987

UR/0294/65/003/005/0727/0730

532, 543, 6:536, 423, 1

A. THOR: Ornatskiy, A. P.; Glushchenko, L. F.

TITLE: The hydraulic resistance of annular channels with surface boiling of

water at pressures of 172 to 216 bars

21,44155

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 5, 1965, 727-730

TOPIC TAGS: hydraulic resistance, boiling, water, high pressure nesenth

ABSTRACT: Experiments were carried out at pressures of 172-216 bars, mass velocities of 1000 and 2000 kg/m2-sec, specific heat fluxes of 0.5 and 1.0 megawatts/m<sup>2</sup>, underheating from 5-10 to 80-90C, and with a width of the annular gap of 1.5 mm. Results are shown graphically. In the region of ultrahigh pressures, right up to pressures close to the critical (216 bars), the appearance of boiling of the liquid in the layer close to the wall causes a rise in the hydraulic resistance of the channel, as in earlier investigations in a pressure range of 4.9 to 172 bars. This indicates that the mechanism of hydraulic resistance in the presence of surface boiling is qualitatively identical in the regions of low, high, 1/2Card

# "APPROVED FOR RELEASE: 09/24/2001 CIA-F

#### CIA-RDP86-00513R000515420012-1

#### L 21987-66

ACCESSION NR: AP5025987

and ultrahigh pressures. The magnitude of the hydraulic resistance with surface boiling in the ultrahigh pressure region (172-216 bars) is practically independent of the pressure, within the range of 4.9 to 216 bars. An empirical equation is derived which is said to be applicable for determination of the hydraulic resistance under the above conditions up to a pressure of 216 bars. Orig. art. has: 2 formulas and 4 figures

ASSOCIATION: Klyevskiy politekhnicheskiy institut (Kiev Polytechnic Institute)

SUBMITTED: 09Jun64

ENCL: 00

SUB CODE: 20

NR REF SOV: 001

OTHER: 000

Card 2/2 W

(M) SOURCE COLM: UL/GOYG/66/000/010/0066/0069 AP60 ... 160 ACC NRI AUTHOR: Ornatskiy, A. P. (Candidate of technical sciences); Kichigin, A. M. (Candidate of technical sciences); Glushchenko, L. F. (Candidate of technical sciences) ORG: Kiev Polytechnical Institute (Kiyevskiy politekhnicheskiy institut) TITLE: Studying critical heat flux in annular channels during external heating SOURCE: Teploenergetika, no. 10, 1966, 66-69 TOPIC TAGS: heat flux pickup, heat transfer, heat measurement, flow velocity ABSTRACT: Experimental data are given on the magnitude of critical heat flux as a function of mass velocity, pressure and underheating during forced circulation of water in annular channels under conditions of unilateral heating. The experiments were carried out at the Laboratory of Heat Exchange Problems and Gas Dynamics of Kiev Polytechnical Institute in 1963-1964 at pressures of 9.8, 24.5, 49.1, 73.6, 98.1, 122.5, 147, 172, 186.4, 196, 201 and 216 bars with underheating variation limits of +750 to 100 KJ/kg. The basic tests were done at mass velocities of 1000 and 2000 kg/m<sup>2</sup>·sec. All experiments were carried out under external heating conditions. A diagram is given showing the experimental unit. A comparison of the experimental and theoretical data shows disagreement which is apparently due to the fact that most of the work on this problem has been done at higher mass velocities that were used in this study. An empirical formula is given for calculating the magnitude of critical heat flux for engineering purposes. Orig. art. has: 7 figures, 1 table, 1 formula. SUB CODE: 20/ SUBM DATE: None/ ORIG REF: 008 UDC: 536.24.532.3.536.68 Card 1/1

# "APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515420012-1

MITROFANOV, V.; ZUYEV, I.; MASHKAUTSAN, S.; YARTSEV, G.; KAMKIN, L.; ZBAFSKIY, S.; GLUSHCHENKO, M.; ROZKIN, G.

Shortcomings of the stage system of teaching. Prof. tekh. obr. 21 no.7:29-31 J1 64.

1. Nachal'nik otdela podgotovki kadrov Yuzhno-Ural'skogo soveta narodnogo khozyayatva (for Mitrofanov) 2. Direktor tsentral'nogo uchebnogo kombinata Yuzhno-Ural'skogo soveta narodnogo khozyayatva (for Zuyev). 3. Nachal'nik otdela tekhnicheskogo obucheniya Chelyabinskogo traktornogo zavoda (for Yartsev). 4. Nachal'nik otdela tekhnicheskogo obucheniya Chelyabinskogo metallurgicheskogo zavoda (for Kamkin). 5. Direktor TSentral'nogo uchebnogo kombinata "Glavyuzhuralstroy" (for Zbarskiy). 6. Nachal'nik otdela tekhnicheskogo obucheniya Magnitogorskogo metallurgicheskogo kombinata (for Glushchenko).

